

Design Maintenance Systems Inc.

Mobile Platform





Automate and manage all of your asset programs with:

MAINTelligence™ : Desktop Software

InspectCE™: Handheld Software
Preventative and Condition Based
Inspections

WorkCE™: Handheld Software
Work Order Management



Handheld computers and accessories



DMSI provides a range of “**rugged**” PDA handhelds



Standard Capabilities



- ❖ Bar code, data & time stamp
- ❖ Voice recording for field based notes
- ❖ Password security protection
- ❖ Comprehensive extended warranties
- ❖ Upgrade for such items as memory
- ❖ Industrial rugged design
- ❖ Six to ten feet repetitive drop design
- ❖ Water and dust proof

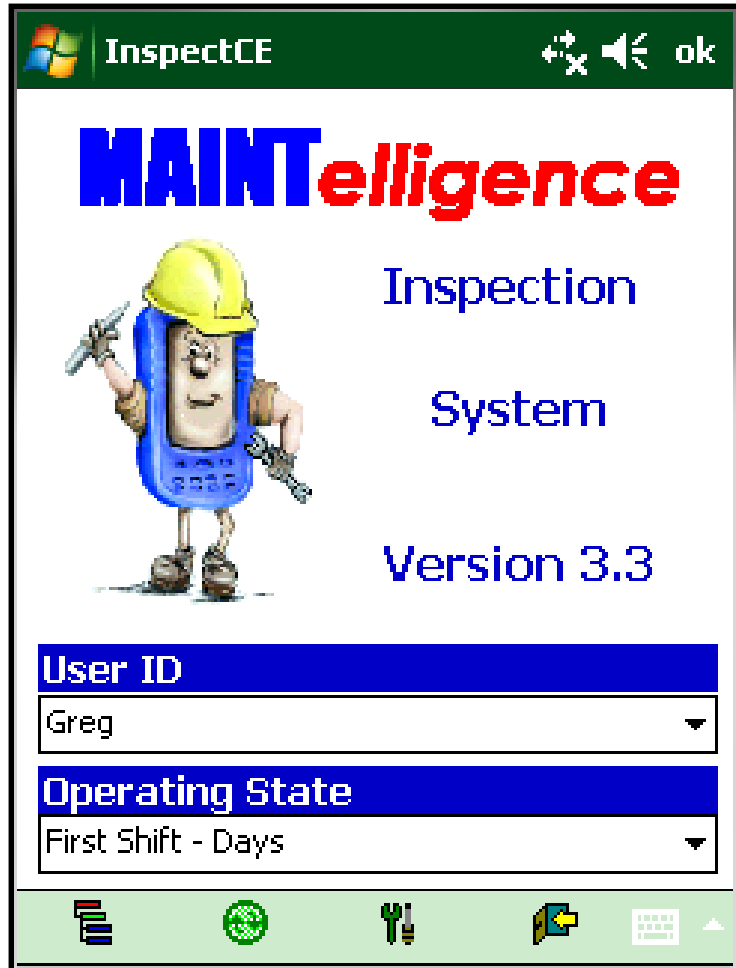
Optional Handheld Accessories



- ❖ Infrared Imaging
- ❖ Vibration Analysis
- ❖ Temperature Measurement
- ❖ Wireless Options (Bluetooth)

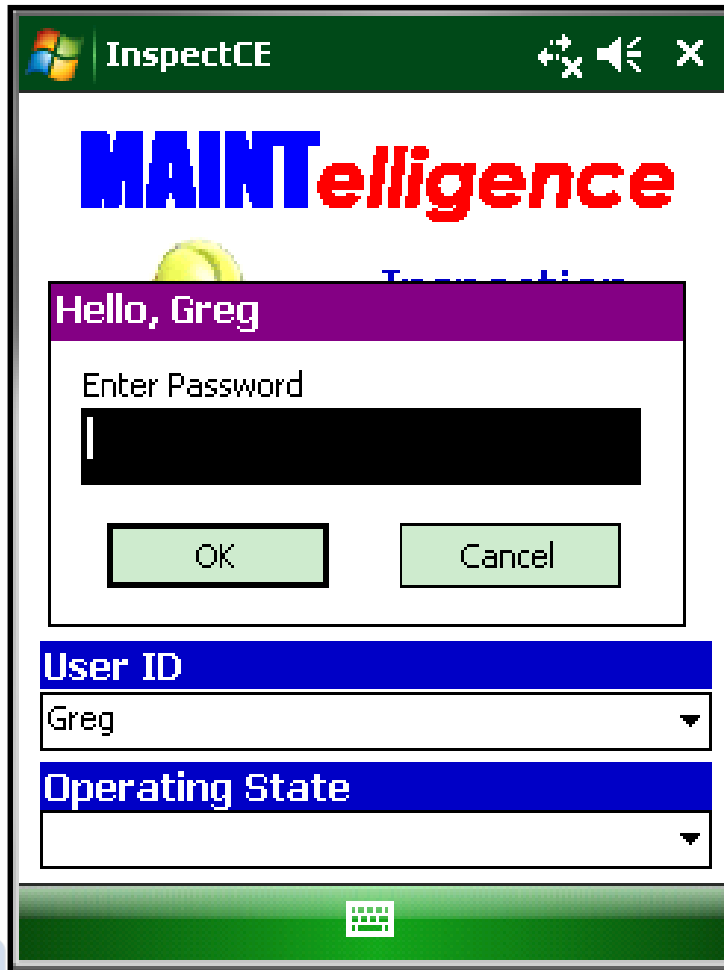


InspectCE for condition & process data collection



Login Screen with
User Name / ID

InspectCE for condition & process data collection



Optional

❖ Password Requirement

❖ Operating State / Shift

InspectCE for condition & process data collection

The screenshot shows the InspectCE software interface. At the top is a green header bar with the Windows logo, the text 'InspectCE', and navigation icons (back, forward, and a small 'ok' button). Below the header is a section titled 'Inspections' with a dropdown arrow. This section contains two tables. The first table lists alarm levels: 'Normal' (12), 'Caution' (1), and 'Critical' (1), each with a checkbox and a colored background (green, yellow, and red respectively). The second table shows summary counts: 'Missed' (0), 'Skipped' (0), and 'Total' (14), each with a checkbox and a grey background. Below these tables is a list of inspection points. Each point has a small icon, a text description, and a status indicator. The point '200873-PMP DE BRG TEMP' is highlighted in green. At the bottom of the screen is a green bar with a clipboard icon, a series of five small upward-pointing chevrons, a small 3D cube icon, and a keyboard icon.

Inspections	
<input checked="" type="checkbox"/> Normal	12
<input checked="" type="checkbox"/> Caution	1
<input checked="" type="checkbox"/> Critical	1
<input checked="" type="checkbox"/> Missed	0
<input checked="" type="checkbox"/> Skipped	0
Total 14	

Point ID	Description	Status
200873-MTR Vis Insp	Vis Insp	Vis
200873-MTR NDE BRG TEMP	NDE BRG TEMP	No
200873-MTR DE BRG TEMP	DE BRG TEMP	Dr
200873-PMP Seal Insp	Seal Insp	Vis
200873-PMP Vis Insp	Vis Insp	Vis
200873-PMP Press	Press	Pu
200873-PMP DE BRG TEMP	DE BRG TEMP	Dr

Main route screen showing:

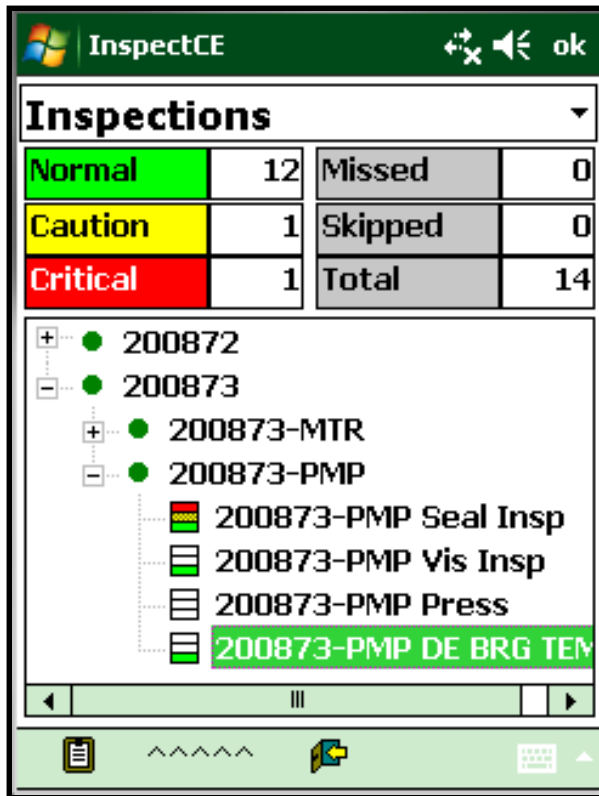
Route name

Alarm summary

Inspection points in route with alarm indication

InspectCE for condition & process data collection

View Assets By ID or Description



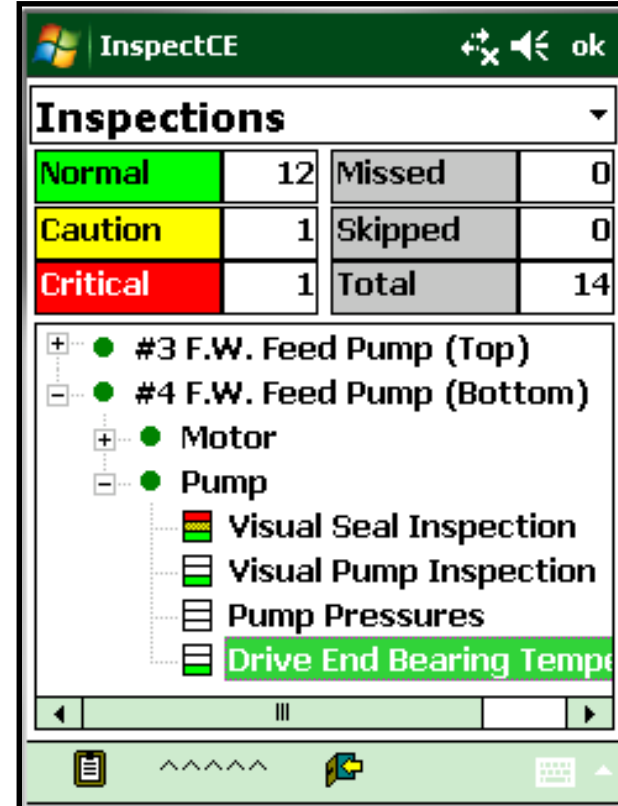
The screenshot shows the InspectCE application window. The title bar is green with the Windows logo, 'InspectCE', and icons for expand, mute, and OK. Below the title bar is a dropdown menu labeled 'Inspections'. The main area is divided into two sections. The top section is a table with inspection status and counts:

Normal	12	Missed	0
Caution	1	Skipped	0
Critical	1	Total	14

The bottom section is a tree view showing asset IDs and descriptions. The tree is expanded to show the following structure:

- + 200872
- 200873
 - + 200873-MTR
 - 200873-PMP
 - 200873-PMP Seal Insp
 - 200873-PMP Vis Insp
 - 200873-PMP Press
 - 200873-PMP DE BRG TEM

The bottom of the window has a green bar with icons for a clipboard, a list of assets, a search icon, and a keyboard icon.



The screenshot shows the InspectCE application window. The title bar is green with the Windows logo, 'InspectCE', and icons for expand, mute, and OK. Below the title bar is a dropdown menu labeled 'Inspections'. The main area is divided into two sections. The top section is a table with inspection status and counts:

Normal	12	Missed	0
Caution	1	Skipped	0
Critical	1	Total	14

The bottom section is a tree view showing asset descriptions. The tree is expanded to show the following structure:

- + #3 F.W. Feed Pump (Top)
- #4 F.W. Feed Pump (Bottom)
 - + Motor
 - Pump
 - Visual Seal Inspection
 - Visual Pump Inspection
 - Pump Pressures
 - Drive End Bearing Temperature

The bottom of the window has a green bar with icons for a clipboard, a list of assets, a search icon, and a keyboard icon.

InspectCE for condition & process data collection

The screenshot shows the InspectCE application window. At the top is a title bar with the Windows logo, the text 'InspectCE', and icons for help, back, and 'ok'. Below the title bar is a dropdown menu labeled 'Inspections'. Under this menu is a table with four columns: a checkbox, a status label, a count, another checkbox, and another label with a count. The rows are: 'Normal' (0), 'Caution' (0), 'Critical' (2), 'Missed' (8), 'Skipped' (4), and 'Total' (14). The 'Critical' row is selected, indicated by a red circle around its checkbox. Below this table is a list of inspection points, each with a checkbox, a point ID, and a description. The first six items are listed, with the first one selected. At the bottom of the window is a toolbar with icons for a list, a search, and a back arrow.

	Normal	Caution	Critical	Missed	Skipped	Total
	0	0	2	8	4	14

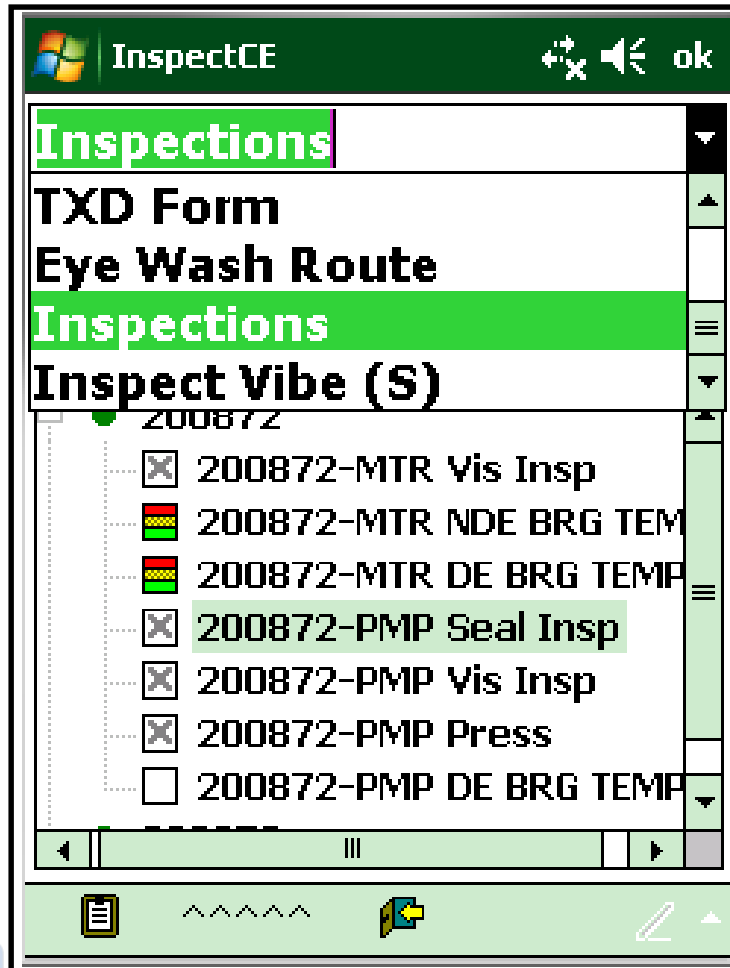
Point ID	Description
<input checked="" type="checkbox"/> 200872-MTR Vis Insp	Visual
<input type="checkbox"/> 200872-MTR NDE BRG TEMP	Non-destructive
<input type="checkbox"/> 200872-MTR DE BRG TEMP	Drive
<input checked="" type="checkbox"/> 200872-PMP Seal Insp	Visual
<input checked="" type="checkbox"/> 200872-PMP Vis Insp	Visual
<input checked="" type="checkbox"/> 200872-PMP Press	Pump

This is the “List View”

This option allows an operator to view only selected items

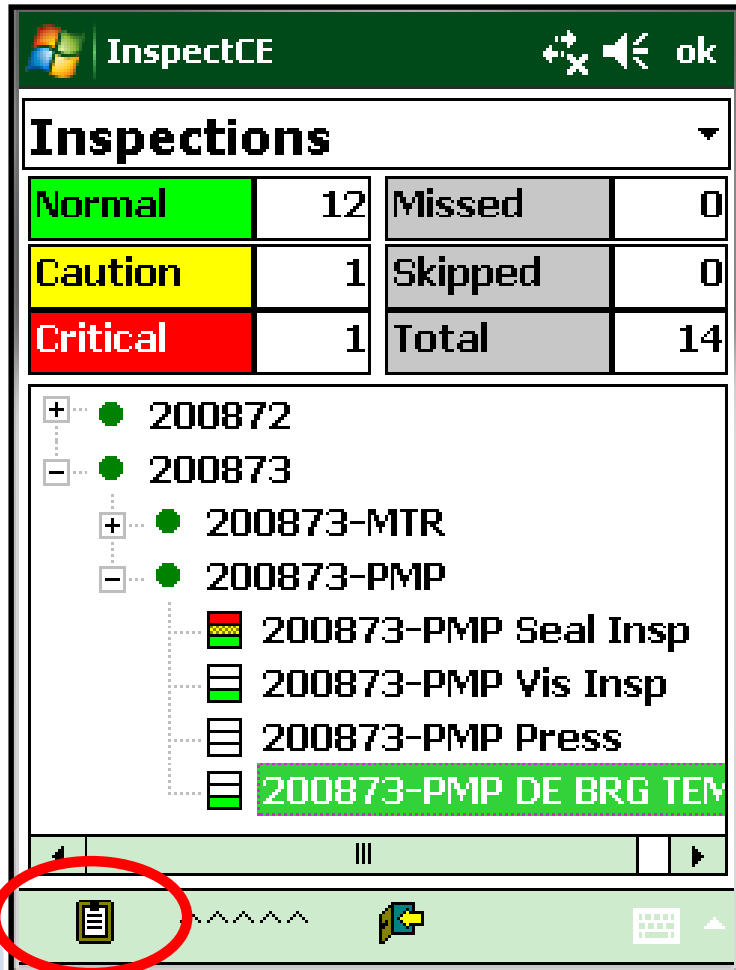
As in this example only points that are in “Critical” are listed. To select items for viewing, users just check off the appropriate items

InspectCE for condition & process data collection



← The drop down list shows all of the routes that are loaded onto the handheld

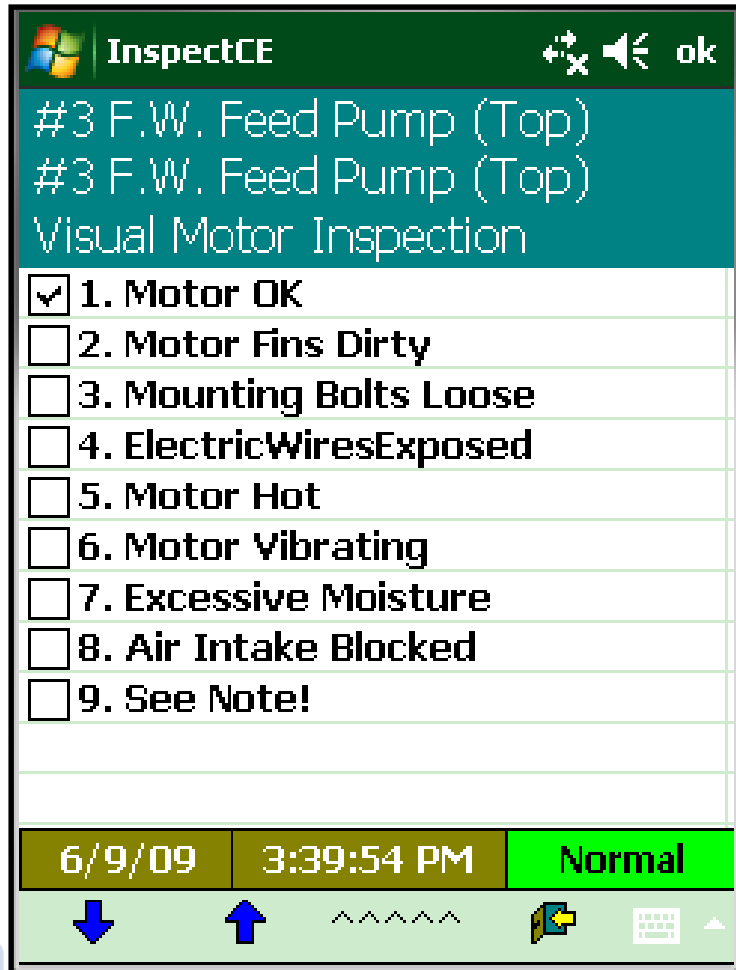
InspectCE for condition & process data collection



To View The Inspection Point:

Double click the inspection point or select the view point button as shown

InspectCE for condition & process data collection



The image shows a screenshot of the InspectCE application window. The title bar is green with the Windows logo, the text 'InspectCE', and icons for zoom, volume, and 'ok'. The main content area has a teal header with the text '#3 F.W. Feed Pump (Top)', '#3 F.W. Feed Pump (Top)', and 'Visual Motor Inspection'. Below this is a list of nine items, each with a checkbox: '1. Motor OK' (checked), '2. Motor Fins Dirty', '3. Mounting Bolts Loose', '4. ElectricWiresExposed', '5. Motor Hot', '6. Motor Vibrating', '7. Excessive Moisture', '8. Air Intake Blocked', and '9. See Note!'. At the bottom, there is a green bar with three fields: '6/9/09', '3:39:54 PM', and 'Normal'. Below this bar are navigation icons: a blue down arrow, a blue up arrow, a series of five small triangles, a yellow arrow pointing right, and a small icon of a document with a plus sign.

Item	Status
1. Motor OK	✓
2. Motor Fins Dirty	
3. Mounting Bolts Loose	
4. ElectricWiresExposed	
5. Motor Hot	
6. Motor Vibrating	
7. Excessive Moisture	
8. Air Intake Blocked	
9. See Note!	

6/9/09 3:39:54 PM Normal

Visual Inspection Example

User Select Items

All entry data is date and time stamped



InspectCE for condition & process data collection

The screenshot shows the InspectCE application window. The title bar is green with the Windows logo, 'InspectCE', and icons for maximize, minimize, and 'ok'. The main area has a teal header with the text '200872-MTR Vis Insp', 'DMSI_Visual Motor Inspection', and '200872'. Below this is a list of items with checkboxes:

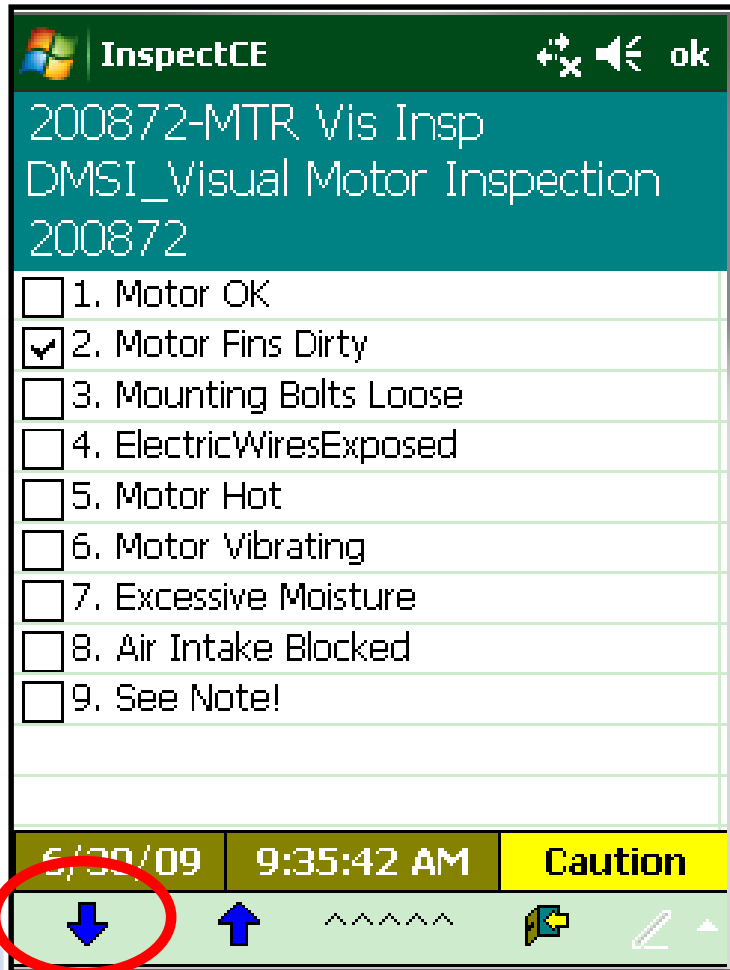
- ☐ 1. Motor OK
- ☒ 2. Motor Fins Dirty
- ☐ 3. Mounting Bolts Loose
- ☐ 4. ElectricWiresExposed
- ☐ 5. Motor Hot
- ☐ 6. Motor Vibrating
- ☐ 7. Excessive Moisture
- ☐ 8. Air Intake Blocked
- ☐ 9. See Note!

At the bottom, there is a status bar with three sections: '6/30/09', '9:35:42 AM', and 'Caution'. Below the status bar are navigation icons: a blue down arrow, a blue up arrow, a series of five small triangles, and a green right arrow.

Users can select as many check off items as needed

Each checked item can be setup with an alarm notification of caution or critical as seen in this example

InspectCE for condition & process data collection



InspectCE

200872-MTR Vis Insp
DMSI_Visual Motor Inspection
200872

- ☐ 1. Motor OK
- ☒ 2. Motor Fins Dirty
- ☐ 3. Mounting Bolts Loose
- ☐ 4. ElectricWiresExposed
- ☐ 5. Motor Hot
- ☐ 6. Motor Vibrating
- ☐ 7. Excessive Moisture
- ☐ 8. Air Intake Blocked
- ☐ 9. See Note!

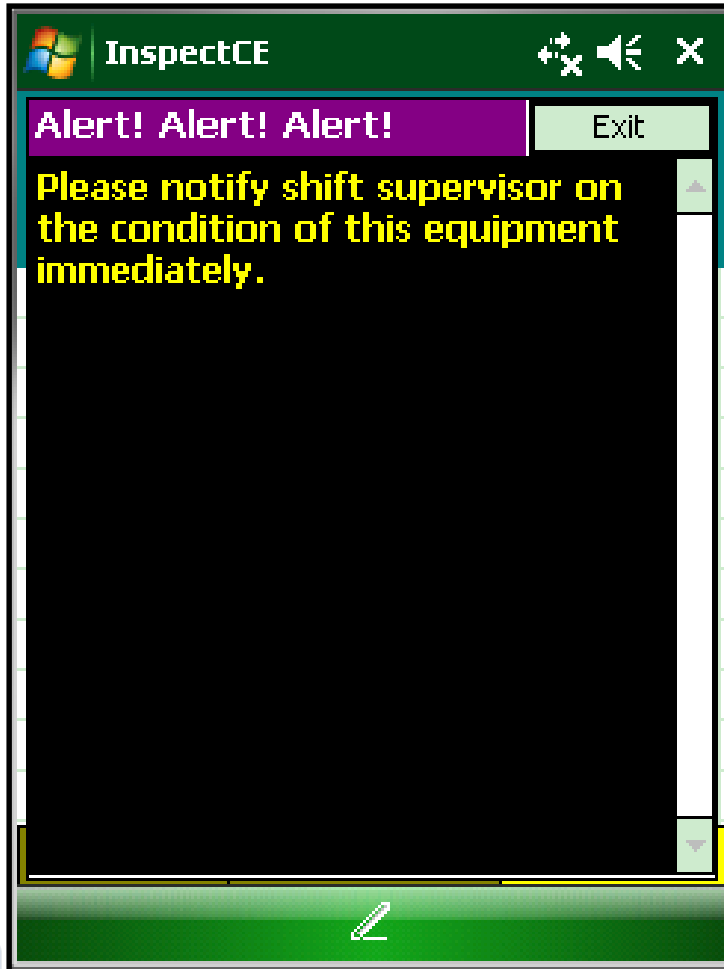
6/30/09 9:35:42 AM Caution

↓ ↑ ~~~~ ↗ ✎

This example shows the multi check off and a caution alarm

To easily access the next point, the user either selects the 'next' button or uses the key pad

InspectCE for condition & process data collection



An alert message can be configured to automatically popup when an item is in a caution or critical alarm

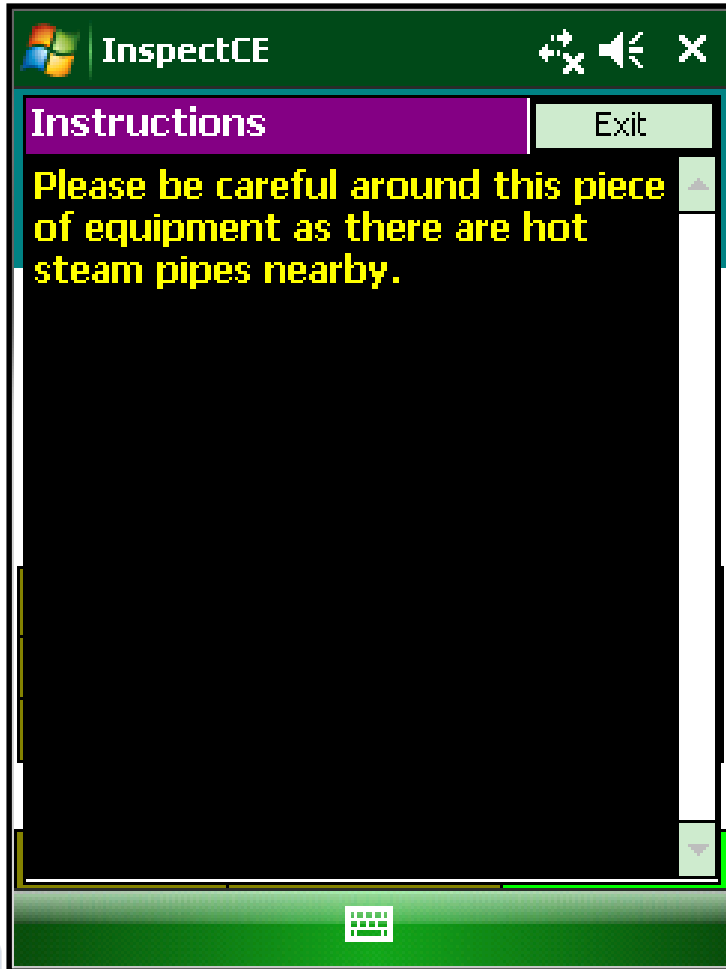
These are all user-defined

Inspect*CE* for condition & process data collection



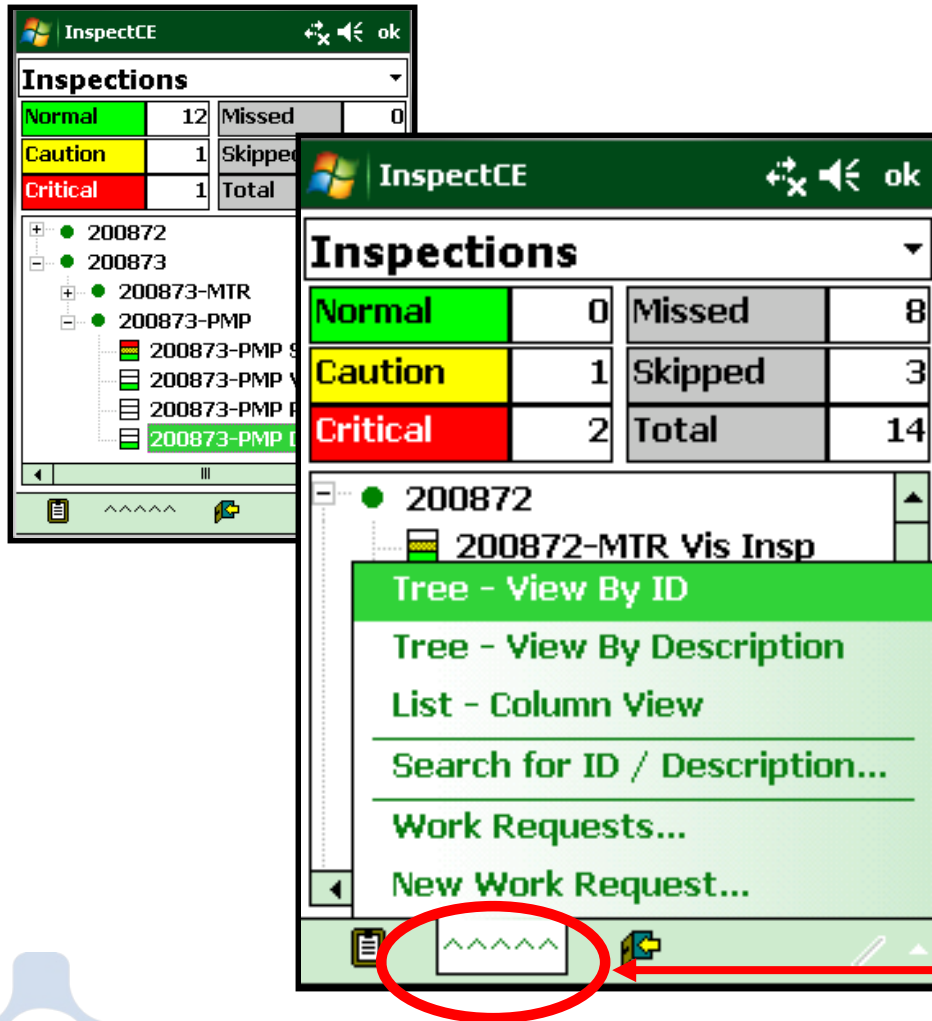
When the operator is collecting data as shown with a bar code, an instruction note can be automatically configured to popup, this can be a lockout specification or an inspection note

InspectCE for condition & process data collection



Inspection note/Instruction
note example

InspectCE for condition & process data collection

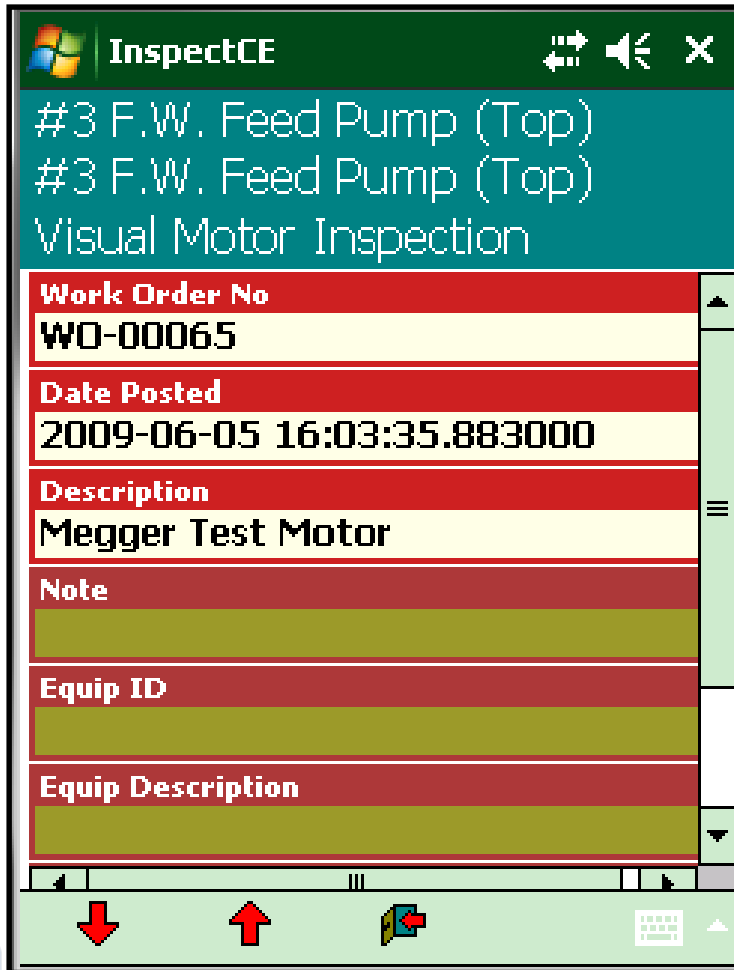


When an operator is at the main menu they have the option to select the action button for additional procedures such as:

- View past work request
- Generate new work request
- Search for assets
- View by ID / Description

Action Button

InspectCE for condition & process data collection



The screenshot shows the InspectCE application window. The title bar is green with the Windows logo and the text 'InspectCE'. The main area has a teal header with the text '#3 F.W. Feed Pump (Top)' and 'Visual Motor Inspection'. Below this is a form with several fields: 'Work Order No' with the value 'WO-00065', 'Date Posted' with the value '2009-06-05 16:03:35.883000', 'Description' with the value 'Megger Test Motor', 'Note', 'Equip ID', and 'Equip Description'. The bottom of the window has a green bar with navigation icons: a red arrow pointing down, a red arrow pointing up, a small 3D cube icon, a keyboard icon, and a small upward arrow.

Field	Value
Work Order No	WO-00065
Date Posted	2009-06-05 16:03:35.883000
Description	Megger Test Motor
Note	
Equip ID	
Equip Description	

Asset Work History Example

InspectCE for condition & process data collection


The image shows a screenshot of the InspectCE software interface. The window has a green title bar with the Windows logo, the text 'InspectCE', and icons for help, volume, and 'ok'. The form is divided into several sections:

- Equipment**: A blue header with a white text box containing '200872' and another white text box containing '#3 F.W. Feed Pump (Top)'.
- Work Request Description**: A blue header with a white text box containing 'Tighten the packing.' and a small icon of a wrench and screwdriver.
- Operator**: A blue header with a white text box containing 'Greg' and a small icon of a person.
- Priority**: A blue header with a white dropdown menu showing 'Immediate'.
- Required**: A blue header with a white dropdown menu showing '6 / 9 /09'.
- Available**: A blue header with a white dropdown menu showing '6 / 9 /09'.

At the bottom of the form, there is a yellow bar with the text '1 Of 1 Requests'. Below this is a green bar with a red down arrow, a red up arrow, a series of five small white triangles, a small icon of a document with a red arrow, and a small icon of a document with a green arrow.

New Work Request
Example

InspectCE for condition & process data collection



The image shows a screenshot of the InspectCE software interface. The title bar is green with the Windows logo, the text 'InspectCE', and icons for zooming and an 'ok' button. The main form has a blue header 'Equipment' followed by a text field containing '200872' and another text field containing '#3 F.W. Feed Pump (Top)'. Below this is a section with a blue header 'Contact' containing a text field with 'Greg Bown'. To the right of this field is a small icon of a person. Below that is a blue header 'Title' with a text field containing 'North American Sales Manager' and a small icon of a person. Below that is a blue header 'Phone' with a text field containing '604 984 3674'. Below that is a blue header 'EMail' with a text field containing 'gregb@desmaint.com'. At the bottom of the form is a yellow bar with the text '1 Of 1 Requests'. Below the yellow bar is a green bar with navigation icons: a red down arrow, a red up arrow, five small upward-pointing triangles, a small icon of a person, and a small icon of a document.

InspectCE

Equipment

200872

#3 F.W. Feed Pump (Top)

Contact

Greg Bown

Title

North American Sales Manager

Phone

604 984 3674

EMail

gregb@desmaint.com

1 Of 1 Requests

New Work Request Example

Showing Additional Fields

InspectCE for condition & process data collection

InspectCE

Single
Required Parameters: 1
Examples

Temperature °F

78.00

Clear

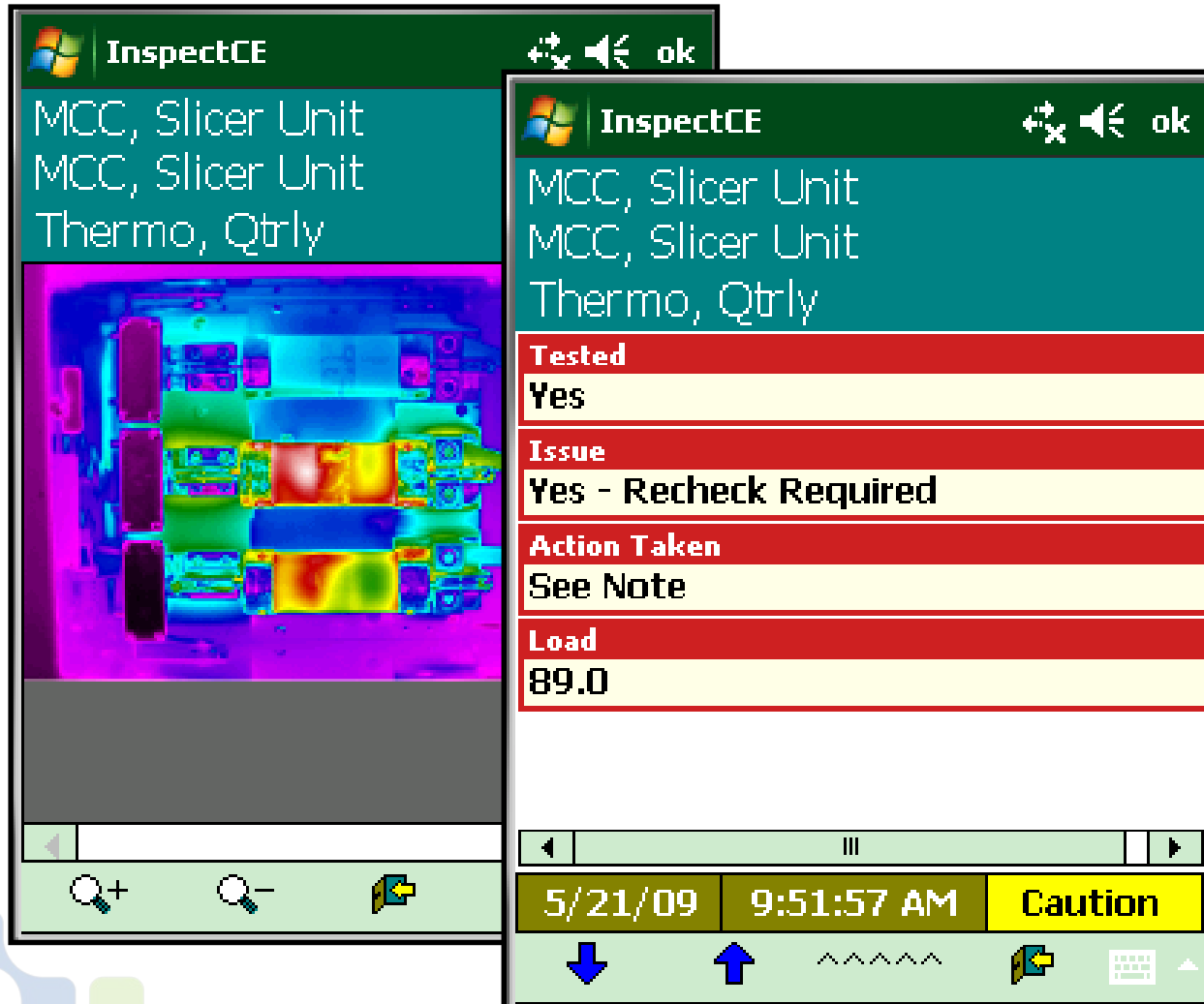
6/30/09 9:35:42 AM Caution

Navigation icons: down arrow, up arrow, five small upward arrows, and a right arrow.

Simple Numeric Entry
Example

The sliding bar is used
to enter the value

InspectCE for condition & process data collection



Infrared Image
Example

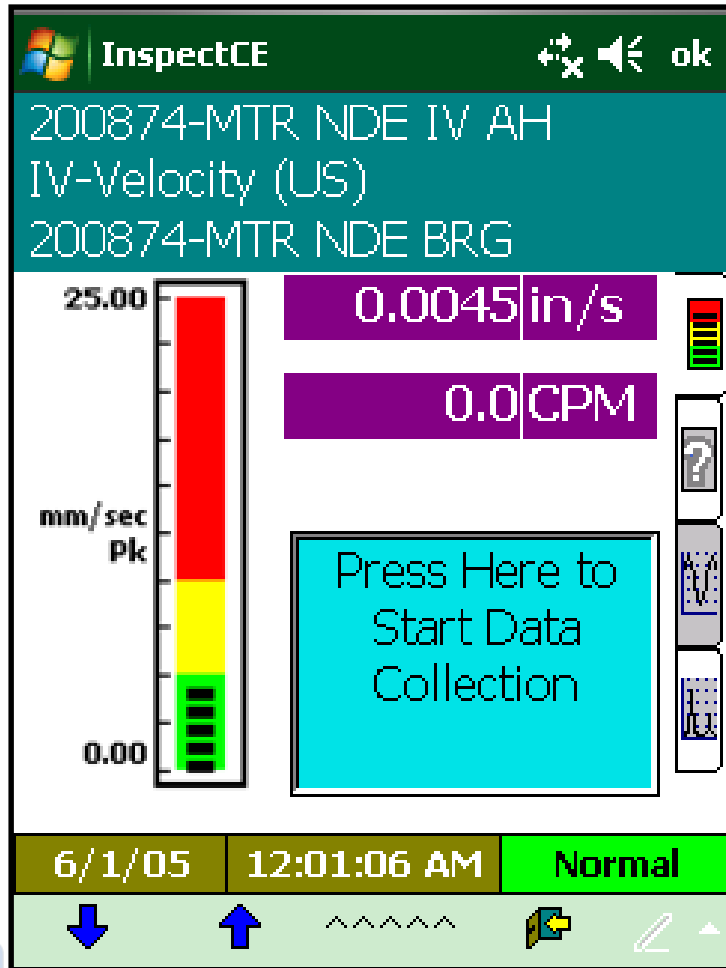
InspectCE for condition & process data collection

The image shows a screenshot of the InspectCE software interface. At the top, there's a title bar with the Windows logo, the text 'InspectCE', and icons for help, volume, and 'ok'. Below the title bar, the main display area shows the following text: '#3 F.W. Feed Pump (Top)', '#3 F.W. Feed Pump (Top)', and 'Non Drive End Bearing'. Below this, there are two tabs: 'Temperature' (selected) and '°F'. The main display area shows a large green box with the number '124.30'. Below this, there's a row of buttons: a left arrow, a right arrow, a 'Clear' button, and a 'Clear' button. Below the buttons, there's a table with three rows: 'Last Collected' with the value '5/7/08 3:23:11', 'Status' with the value 'Caution', and 'Value' with the value '177.20'. At the bottom, there's a row of buttons: '6/9/09', '3:40:00 PM', 'Normal', and a 'Normal' button. Below the buttons, there's a row of icons: a blue arrow pointing down, a blue arrow pointing up, a row of five small squares, a yellow arrow pointing right, and a 'Normal' button.

Temperature	
124.30	
▼	
◀	▶
Clear	
Last Collected	5/7/08 3:23:11
Status	Caution
Value	177.20
6/9/09	3:40:00 PM
Normal	
↓	↑
~~~~~	
▶	

Numeric Entry Example  
With Last Date Collection  
History

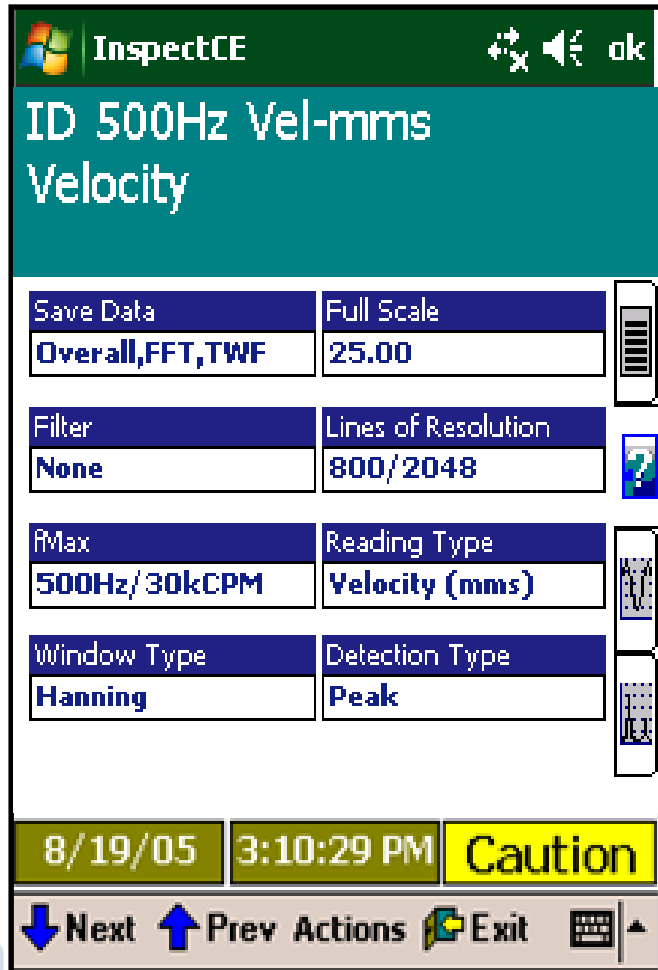
# InspectCE for condition & process data collection



## Vibration Data Collection Example

This example shows the simple interface that operators use when collecting vibration data. Simple one button display with color coded alarm

# InspectCE for condition & process data collection



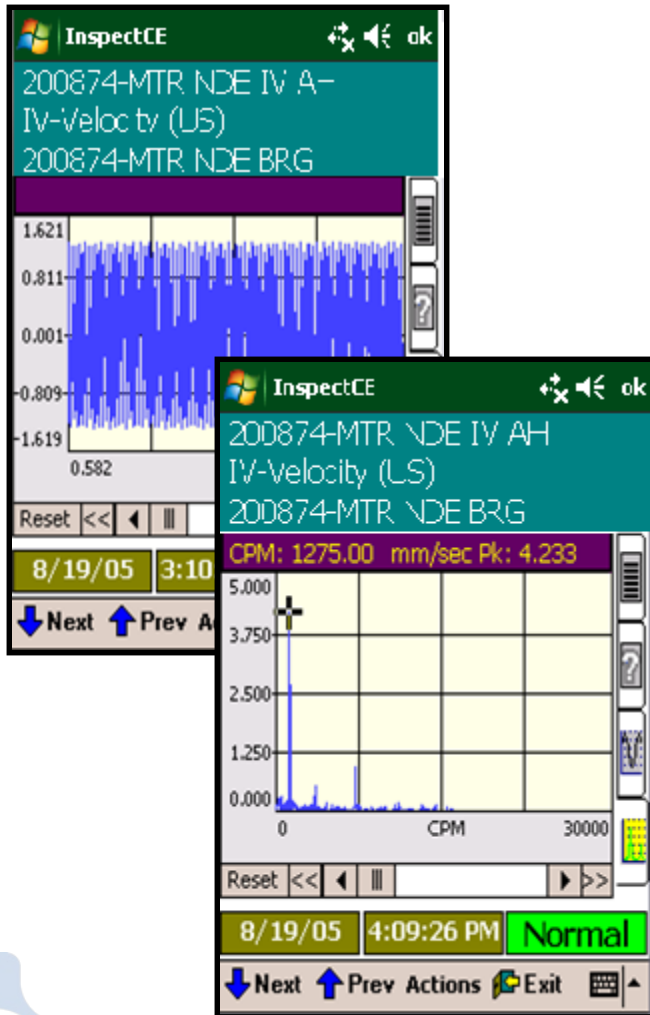
The image shows a screenshot of the InspectCE software interface. The title bar at the top reads "InspectCE" with a Windows logo on the left and a volume icon and "ok" button on the right. Below the title bar, a teal header area contains the text "ID 500Hz Vel-mms" and "Velocity". The main area is a table of parameters:

Save Data	Full Scale
Overall,FFT,TWF	25.00
Filter	Lines of Resolution
None	800/2048
RMax	Reading Type
500Hz/30kCPM	Velocity (mms)
Window Type	Detection Type
Hanning	Peak

At the bottom of the table, there are three yellow buttons: "8/19/05", "3:10:29 PM", and "Caution". Below these buttons is a navigation bar with icons and text: a blue arrow pointing down, "Next", a blue arrow pointing up, "Prev", "Actions", a green arrow pointing right, "Exit", and a keyboard icon.

Users have the option to view the vibration setup parameters

# InspectCE for condition & process data collection



Other viewing options for vibration data collection include time waveform and FFT spectrum

# InspectCE for condition & process data collection

The image shows a screenshot of the InspectCE software interface. At the top, there is a green header bar with the Windows logo, the text 'InspectCE', and icons for a USB device, a speaker, and an 'ok' button. Below the header, a teal bar contains the text 'Duel', 'Required Parameters: 2', and 'Examples'. The main area features a large numeric input field with '0.00' displayed in white on a blue background. To the right of this field is a dropdown arrow. Below the input field is a 'Clear' button. Further down, there are two rows of data: a yellow row labeled 'Inlet' with the value '0.00' in purple, and a grey row labeled 'Outlet' with the value '0.00' in grey. At the bottom, a green bar displays the date '6/30/09', the time '10:15:41 AM', and the word 'Done'. Below this bar are several navigation icons: a blue down arrow, a blue up arrow, a series of five small triangles, a yellow arrow pointing right, and a white arrow pointing up.

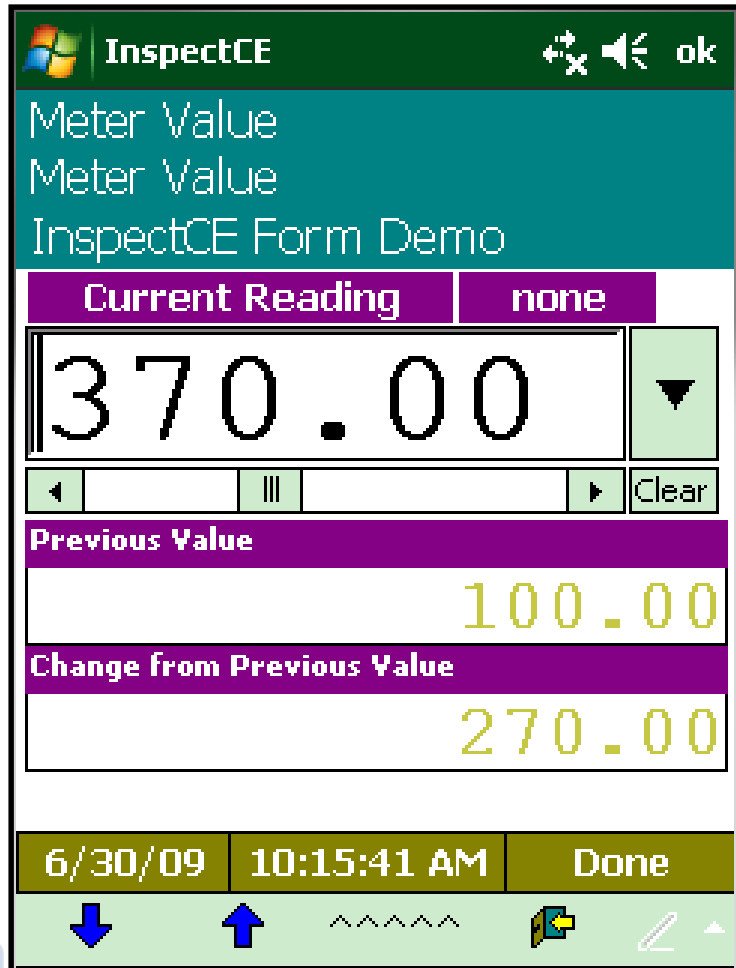
More complex numeric  
entry example

# InspectCE for condition & process data collection

The screenshot shows the InspectCE application interface. At the top, there is a title bar with the Windows logo, the text "InspectCE", and icons for zooming, a speaker, and an "ok" button. Below the title bar, the main content area has a teal header with the text "Fluid Inspection" and "Required Parameters: 1". Underneath, there is a section labeled "Examples" with three purple buttons: "0.0", "Oil Added", and "25.0". Below these buttons is a horizontal slider control with a white bar and a black slider knob, with the value "5.0" displayed to the right. Below the slider are two purple headers: "Oil Level" and "Oil Conditon". Under "Oil Level" is a dropdown menu showing "Full". Under "Oil Conditon" is a dropdown menu showing "Oil Ok". At the bottom, there is a green bar with three sections: "6/30/09", "10:15:41 AM", and "Done". Below this bar is a light green bar with several icons: a blue down arrow, a blue up arrow, a series of five small black triangles, a yellow arrow pointing right, and a white arrow pointing up.

Example screen image showing numeric and none numeric data entry

# InspectCE for condition & process data collection



The screenshot shows the InspectCE application interface. At the top, there's a title bar with the Windows logo, the text 'InspectCE', and icons for help, back, and 'ok'. Below the title bar, the text 'Meter Value' is displayed twice. The main section is titled 'InspectCE Form Demo'. It contains a 'Current Reading' field with a value of '370.00' and a 'none' status. Below this is a 'Previous Value' field with a value of '100.00'. A 'Change from Previous Value' field shows '270.00'. At the bottom, there's a status bar with the date '6/30/09', time '10:15:41 AM', and a 'Done' button. The bottom-most bar contains navigation icons: a blue arrow pointing down, a blue arrow pointing up, a series of five small triangles, a yellow arrow pointing right, and a white arrow pointing up.

Current Reading	none
370.00	
Previous Value	100.00
Change from Previous Value	270.00
6/30/09	10:15:41 AM
Done	

Numeric entry example  
with change from  
previous value

# InspectCE for condition & process data collection



The image shows a handheld device screen with the 'InspectCE' application. The screen has a green header bar with the Windows logo, the text 'InspectCE', and navigation icons (back, forward, ok). Below the header, the device ID '200878-MTR NDE BRG GP' and the component name 'Motor Non Drive End Bearing L_Grease' are displayed in white text on a teal background. The main data entry area consists of several rows with red headers and yellow input fields. The first row is 'Grease Added [oz (US fluid)]' with the value '0'. The second row is 'Condition' with the value 'Nipple OK'. The third row is 'Grease Type' with the value 'Mobil Grease'. The fourth row is 'Suggested Quantity [oz (US fluid)]' with the value '4'. At the bottom, there is a status bar with three green boxes containing '6/30/09', '10:15:41 AM', and 'Done'. Below the status bar is a green bar with navigation icons: a blue down arrow, a blue up arrow, a series of five small black triangles, a yellow arrow pointing right, and a white pencil icon.

Field	Value
Grease Added [oz (US fluid)]	0
Condition	Nipple OK
Grease Type	Mobil Grease
Suggested Quantity [oz (US fluid)]	4

Numeric and non numeric examples showing type, amount, condition and more



# InspectCE for condition & process data collection

InspectCE

200870-MTR-Grease  
DMSI_Lubrication Management-  
200870-MTR Lube

AmountAdded	2
Suggested Quantity	2
Grease	Mobilgrease Moly 50
Fill Points	2
Application	Grease Gun
Condition	

5/7/09 8:04:58 AM Normal

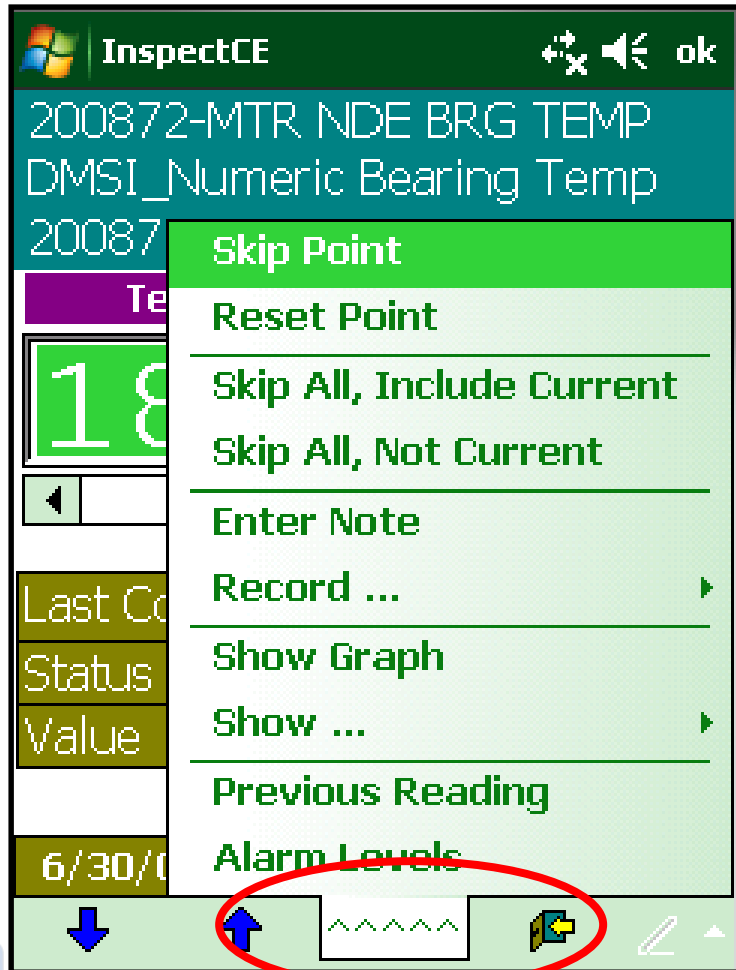
InspectCE

200878-GBX Oil Management  
DMSI_Lubrication Management-  
200878-GBX Lubricant

Oil Level/Condition	Level OK
AmountAdded	0.00
Lubrication	Mobilgear 630
Application	Oil Can
Fill Points	1
Source	

6/30/09 10:14:43 AM Normal

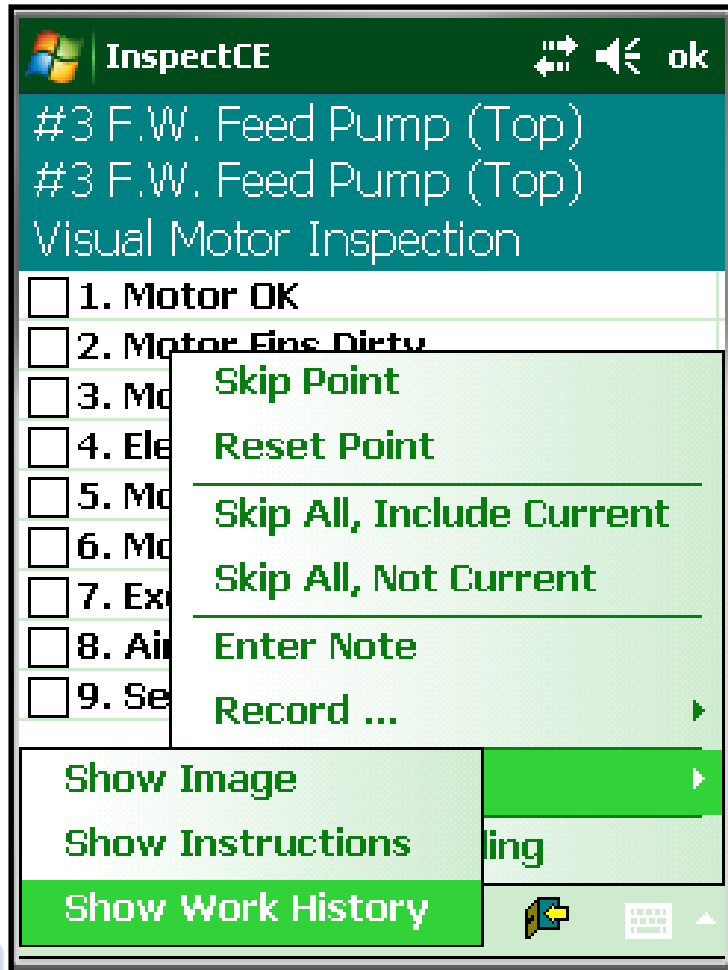
# InspectCE for condition & process data collection



The 'Actions' button provides additional information about the point

The user can access alarm levels and previous readings

# InspectCE for condition & process data collection



Many additional items can be viewed from the inspection point

# InspectCE for condition & process data collection

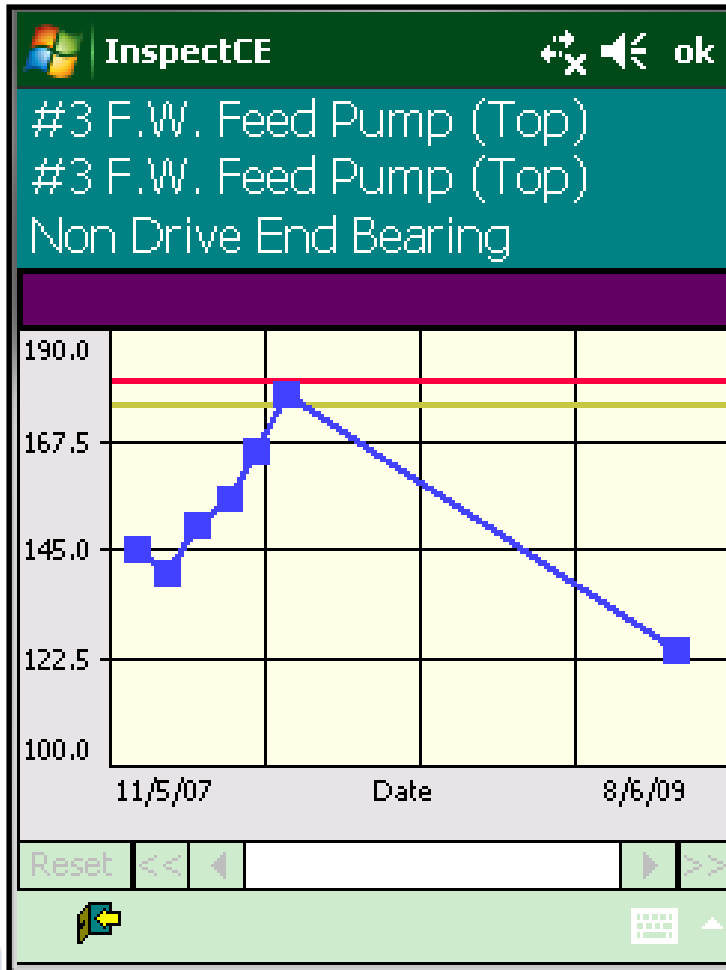
The image shows a screenshot of the InspectCE software interface. The title bar reads "InspectCE" with standard window controls. The main display area shows the following information:

- Device/Process: #3 F.W. Feed Pump (Top)
- Parameter: Temperature
- Alarm Levels Table:

Critical - High	180.00
Caution - High	175.00
- OK button
- Status Bar: 6/9/09 | 3:40:00 PM | Normal

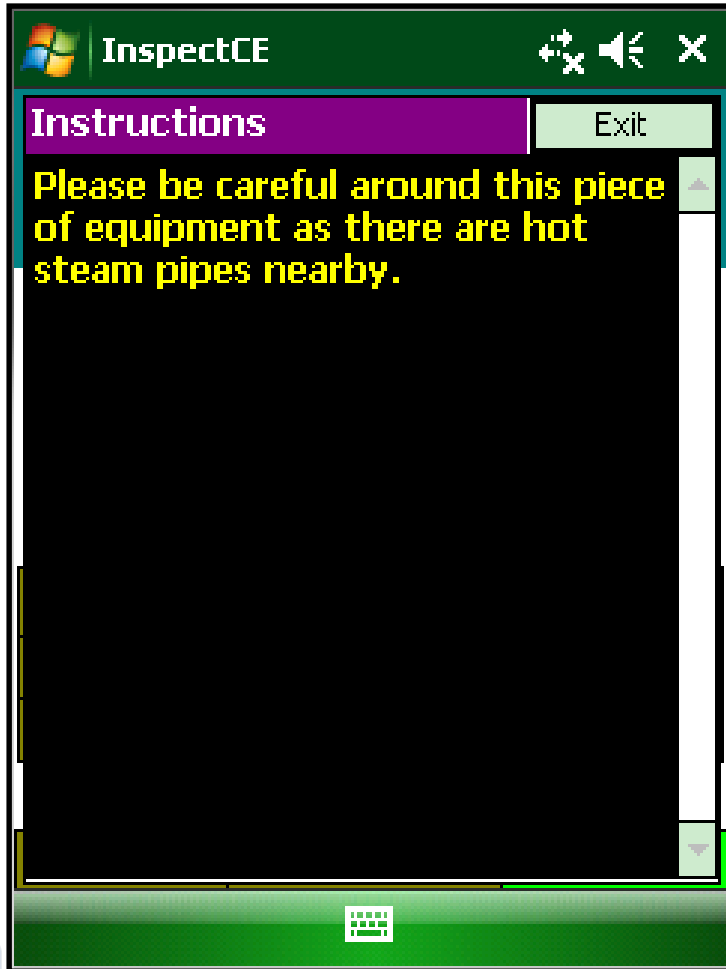
Alarm Levels

# InspectCE for condition & process data collection



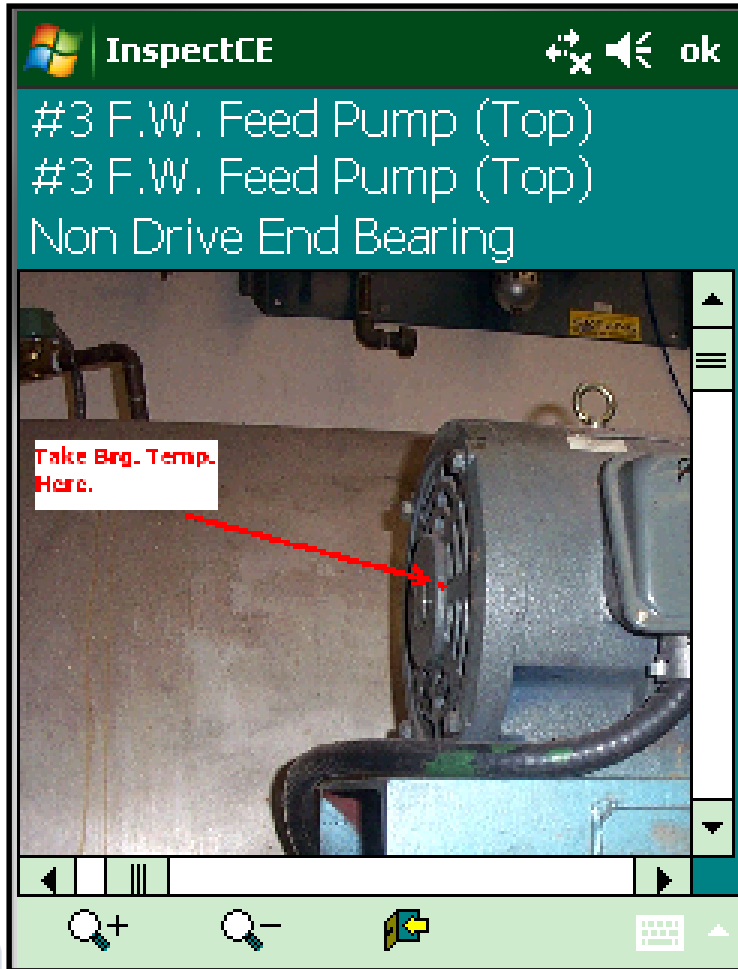
Trends

# InspectCE for condition & process data collection



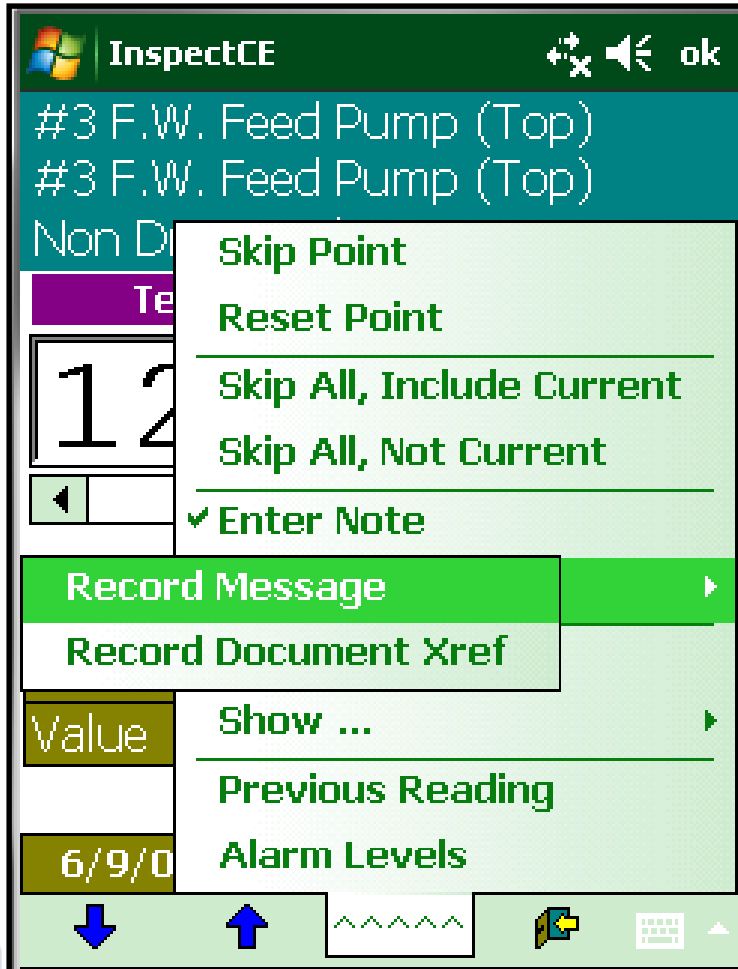
Notes

# InspectCE for condition & process data collection



Images with Instructions

# InspectCE for condition & process data collection



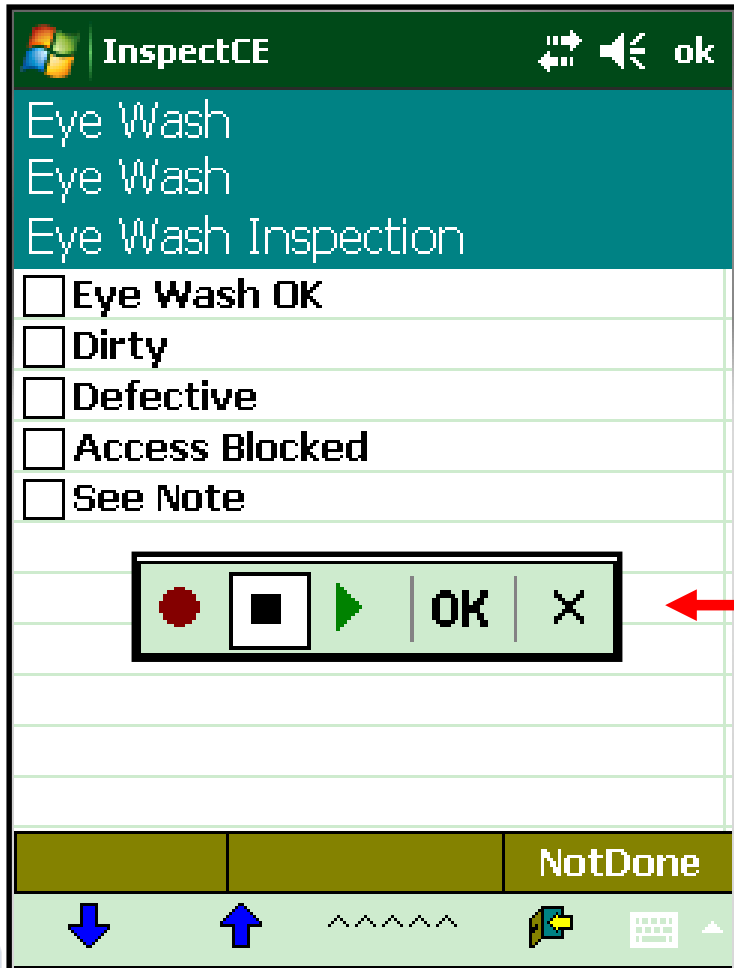
Users can record three types of notes

- Preconfigured notes
- Free hand notes
- Record an audible message

All notes are tied directly to the individual inspection point

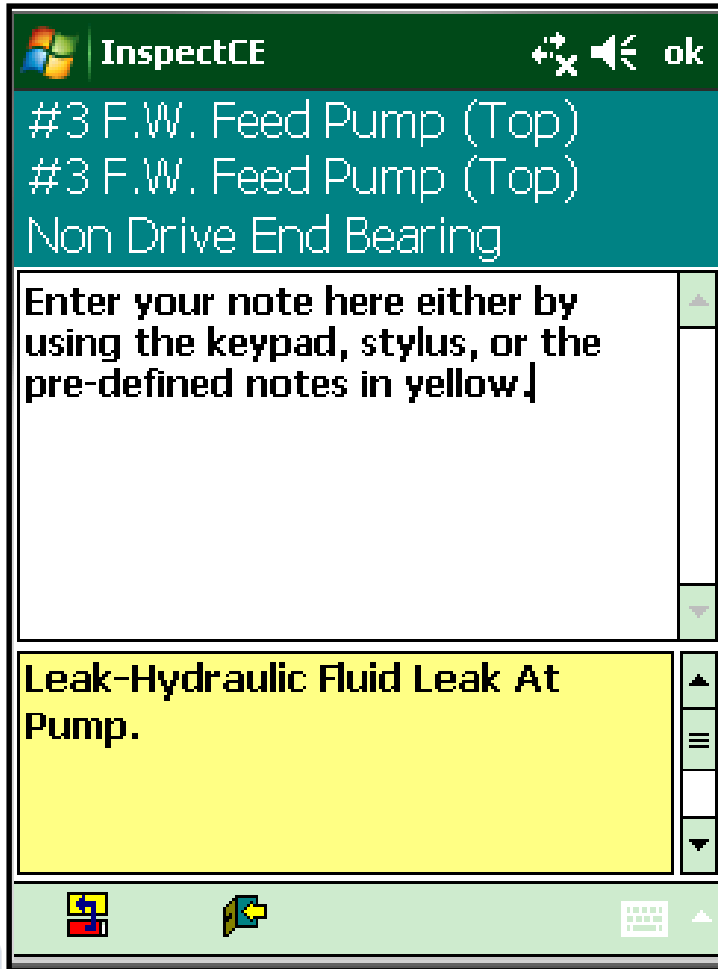


# InspectCE for condition & process data collection



Record an Audible Message,  
WAV file

# InspectCE for condition & process data collection



The image shows a screenshot of the InspectCE application window. The title bar is green with the Windows logo, the text 'InspectCE', and icons for help, volume, and 'ok'. The main content area has a teal header with the text '#3 F.W. Feed Pump (Top)', '#3 F.W. Feed Pump (Top)', and 'Non Drive End Bearing'. Below this is a large white text area with the instruction 'Enter your note here either by using the keypad, stylus, or the pre-defined notes in yellow.' To the right of this area is a vertical scrollbar. Below the white area is a yellow rectangular box containing the text 'Leak-Hydraulic Fluid Leak At Pump.' To the right of this box is another vertical scrollbar. At the bottom of the window is a light green taskbar with icons for a keypad, a stylus, and a keyboard.

Preconfigured Note Example

# InspectCE for condition & process data collection



The handheld PDA is found to be user friendly and the preferred method for entering inspection data



# Automate and manage all of your work orders with:

Work**CE**™: Handheld Software



# WorkCE for Work Management

Status	Count
Issued	1
Started	0
Complete	0
Cancelled	0
<b>Total</b>	<b>1</b>

CPBB-13  
Compressor  
Change Oil_Filter  
MBB-12 Jet Mill Air Compressor

Form Exit

← Route selection

← Summary of selected route

← List of work orders in selected route

# WorkCE for Work Management

The screenshot shows the WorkCE software interface. At the top, there's a blue header bar with the Windows logo, the text 'WorkCE', and icons for window management, volume, and time (12:29). Below the header, the main content area has a teal background with the text 'CPBB-13 Compressor Change Oil Filter MBB-12 Jet Mill Air Compressor'. To the right of this text is a vertical tab bar with four icons: a cross (Work order tab), a gear (Parts tab), a person (Personnel tab), and a wrench (Tools & Miscellaneous tab). The main content area is divided into sections: 'Work Order' with the value 'W000033187', 'Change Oil Filter', and a table with four fields: 'Priority' (High), 'Status' (Issued), 'Due Date' (6 / 25 / 09), and 'Last Done Date' (6 / 22 / 09). At the bottom, there's a blue bar with navigation buttons: 'Next', 'Prev', 'Actions', and 'Exit'.

Work Order
W000033187

Change Oil Filter

Priority	Status
High	Issued

Due Date	Last Done Date
6 / 25 / 09	6 / 22 / 09

Navigation: Next Prev Actions Exit

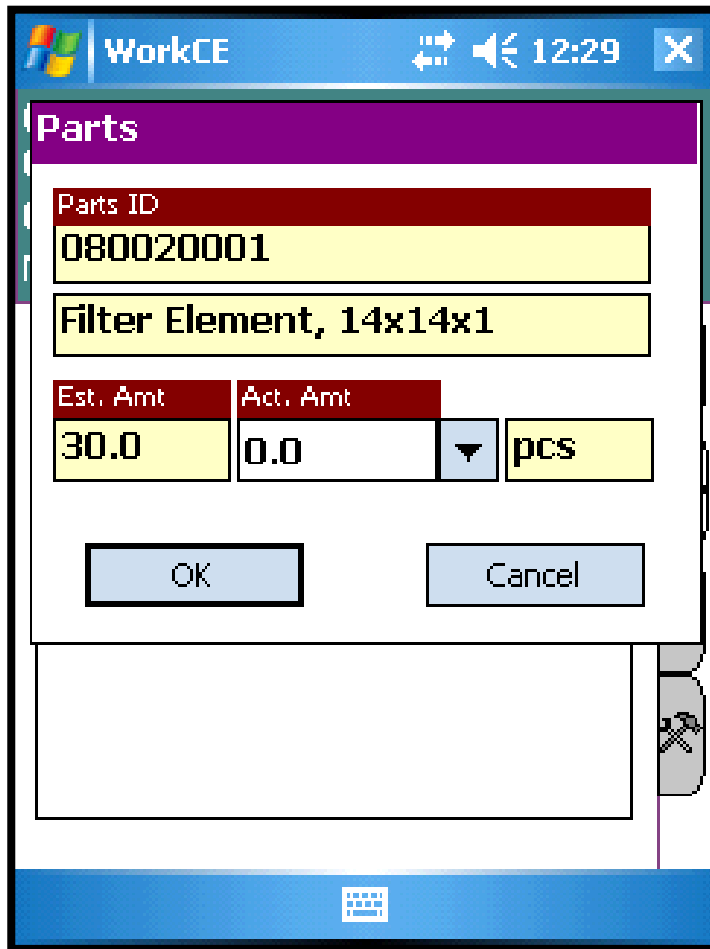
Work order tab

Parts tab

Personnel tab

Tools & Miscellaneous tab

# WorkCE for Work Management



The screenshot shows a software window titled "WorkCE" with a standard Windows-style title bar. Inside the window, there is a tab labeled "Parts" with a purple header. Below the header, the "Parts ID" field contains the text "080020001". The description field below it contains "Filter Element, 14x14x1". A table with two columns, "Est. Amt" and "Act. Amt", shows values "30.0" and "0.0" respectively. To the right of the "Act. Amt" field is a dropdown menu showing a downward arrow and the unit "pcs". At the bottom of the form are "OK" and "Cancel" buttons. A keyboard icon is visible in the bottom right corner of the window.

Est. Amt	Act. Amt
30.0	0.0

Parts tab identifying all parts and quantity of parts required for the work order

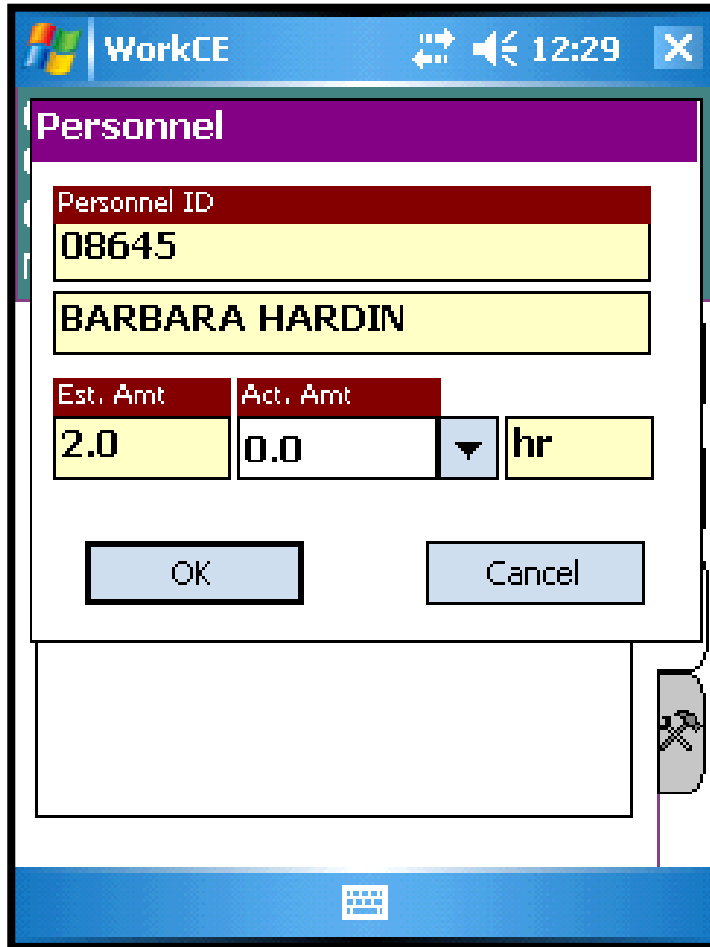
# WorkCE for Work Management

Parts	
Parts ID	
090010007	
Lubricant, Mobil DTE Oil Light	
Est. Amt	Act. Amt
6.0	0.0
▼ gal (US)	
OK Cancel	

Multiple parts and tools can be assigned to the work order



# WorkCE for Work Management

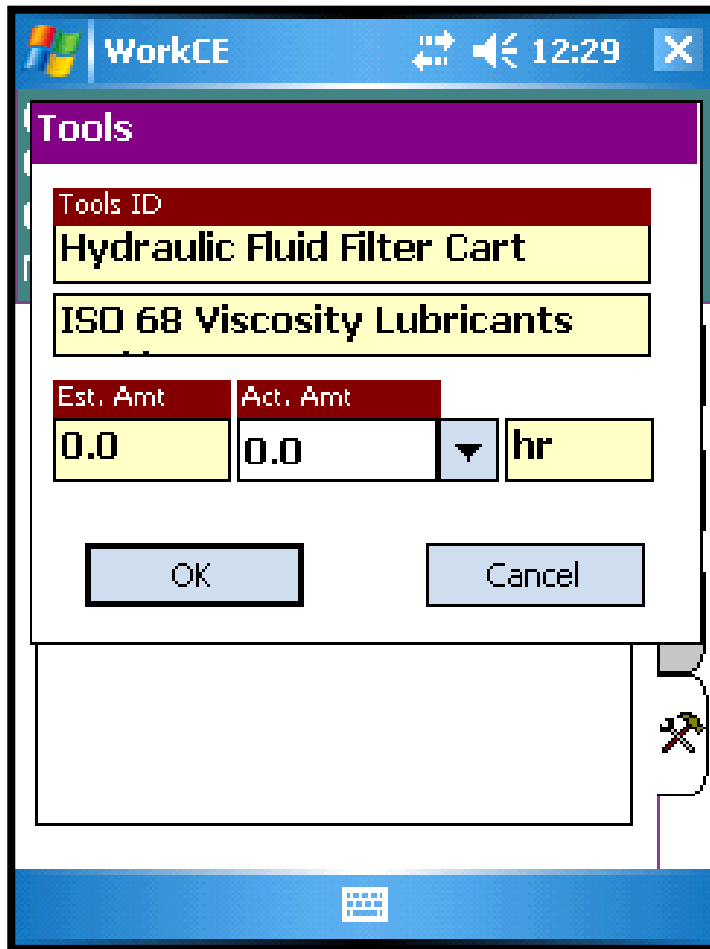


The screenshot shows a Windows-style dialog box titled "WorkCE". The main content area is titled "Personnel" in a purple header. Below the header, there are several input fields: "Personnel ID" with the value "08645", and a text field containing "BARBARA HARDIN". Below these, there is a table with two columns: "Est. Amt" and "Act. Amt". The "Est. Amt" field contains "2.0" and the "Act. Amt" field contains "0.0". To the right of the "Act. Amt" field is a dropdown menu showing a downward arrow and the unit "hr". At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

Est. Amt	Act. Amt	Unit
2.0	0.0	hr

Personnel assigned to perform the work

# WorkCE for Work Management



The screenshot shows a Windows-style application window titled 'WorkCE' with a standard Windows logo icon on the left and window control buttons (maximize, minimize, close) on the right. The time '12:29' is displayed in the title bar. The main content area of the window is titled 'Tools' in a purple header. Below the header, there are two text input fields: the first is labeled 'Tools ID' and contains the text 'Hydraulic Fluid Filter Cart'; the second is labeled 'ISO 68 Viscosity Lubricants'. Below these fields is a table with two columns: 'Est. Amt' and 'Act. Amt'. The 'Est. Amt' column contains the value '0.0'. The 'Act. Amt' column contains the value '0.0'. To the right of the 'Act. Amt' column is a dropdown menu with a downward arrow and the unit 'hr'. At the bottom of the dialog, there are two buttons: 'OK' and 'Cancel'. A small icon of a wrench and screwdriver is visible in the bottom right corner of the dialog box.

Est. Amt	Act. Amt
0.0	0.0

Tools required to  
complete the work

# WorkCE for Work Management

The screenshot shows the WorkCE mobile application interface. At the top, the status bar displays the Windows logo, the text 'WorkCE', a signal strength indicator, a battery level indicator, the time '12:28', and an 'ok' button. Below the status bar, the main header area contains the text 'CPBB-13 Compressor', 'Change Oil Filter', and 'MBB-12 Jet Mill Air Compressor'. The main content area is divided into two sections. The top section, titled 'Work Order', contains a yellow box with the text 'W000033187'. The bottom section, titled 'Change Oil Filter', contains a yellow box with the text 'Change Oil Filter'. To the right of the 'Work Order' section is a small icon of a hand holding a tool. Below the 'Change Oil Filter' section is a small icon of a hand holding a tool. The bottom section of the main content area contains a table with the following data:

Priority	High
Due Date	6 / 25 / 09

At the bottom of the screen is a navigation bar with the following buttons: 'Next' (with a blue arrow pointing right), 'Prev' (with a blue arrow pointing left), 'Actions' (with a red circle around it), 'Exit' (with a green arrow pointing right), and a keyboard icon.

Actions tab provides features available for the selected work order

# WorkCE for Work Management

WorkCE 12:28 ok

CPBB-13  
Compressor  
Change Oil_Filter  
MBB-12 Jet Mill Air Compressor

Work Order  
W000033187

Change Oil_Filter

**Enter Note**

Priority  
High

Due Date  
6 /25/09

Show Instructions  
Show Lockout Notes  
Show Image  
Show Work History

Next Prev Actions Exit

WorkCE 3:38 ok

CPBB-13  
Compressor  
Change Oil_Filter  
MBB-12 Jet Mill Air Compressor

Grease - Fitting Missing Or Damaged

Copy Exit

Ability to enter a note

Pre-defined note list

Microsoft data entry options

# WorkCE for Work Management

WorkCE 12:28 ok

CPBB-13  
Compressor  
Change Oil_Filter  
MBB-12 Jet Mill Air Compressor

Work Order  
W000033187

Change Oil_Filter

Enter Note

Priority  
High

Due Date  
6 / 25 / 09

Show Instructions (circled in red)

Show Lockout Notes

Show Image

Show Work History

Next Prev Actions Exit

WorkCE 12:28 X

Instructions Exit

Change oil (Mobil DTE Oil Light)  
stored in lubricant shed #3!

Options for  
instruction notes

# WorkCE for Work Management

WorkCE 12:28 ok

CPBB-13  
Compressor  
Change Oil_Filter  
MBB-12 Jet Mill Air Compressor

Work Order  
W000033187

Change Oil_Filter

Enter Note

Priority  
High

Due Date  
6 / 25 / 09

Show Instructions  
**Show Lockout Notes**  
Show Image  
Show Work History

Next Prev Actions Exit

WorkCE 12:28 X

Lockout Alert!

Exit

Attach lock to breaker #37!

Ability to download  
Lockout procedures  
with the W.O. to the  
handheld.

# WorkCE for Work Management

WorkCE 12:28 ok

CPBB-13  
Compressor  
Change Oil_Filter  
MBB-12 Jet Mill Air Compressor

Work Order  
W000033187

Change Oil_Filter

Enter Note

Priority  
High

Due Date  
6 / 25 / 09

Show Instructions  
Show Lockout Notes  
Show Work History

Next Prev Actions Exit

WorkCE 12:28 ok

CPBB-13  
Compressor  
Change Oil_Filter  
MBB-12 Jet Mill Air Compressor

Work Order No  
W000031554

Date Posted  
2007-11-15 11:49:57.057000

Description  
Filter Lubricant

Note  
When this compressor is down, connect

Equip ID

Next Prev Exit

Ability to view work history in the handheld

# WorkCE for Work Management



## Mobile Work Order Management

- Accountability
- Labor Efficiency
- Improved information management